

Name: _____ Period: **Corrective Math Period 6-7** Date: _____

Adding & Subtraction of Fractions with **Uncommon Denominator**

Q?	Is the <u>small denominator</u> a factor of the larger denominator. Yes, then the larger denominator is the Common Denominator . Modify the other fraction.	No! Then <u>the Common Denominator is</u> the product of the two denominators. Modify both fractions.
Example:	$\frac{2}{3} + \frac{5}{9}$ 3 is a factor of 9. $CD=9$ $\frac{3}{3} \cdot \frac{2}{3} + \frac{5}{9} = \frac{6}{9} + \frac{5}{9} = \frac{6+5}{9} = \frac{11}{9}$	$\frac{2}{3} + \frac{5}{4}$ 3 is not a factor of 4 so $CD=3 \cdot 4=12$ $\frac{4}{4} \cdot \frac{2}{3} + \frac{5}{4} \cdot \frac{3}{3} = \frac{8}{12} + \frac{15}{12} = \frac{8+15}{12} = \frac{23}{12}$
To ensure you have the correct answer use a calculator and change the fractions to decimals. $\frac{2}{3} + \frac{5}{9} = 0.67 + 0.56 = 1.23$ <i>Check your fraction</i> $\frac{11}{9} = 1.222$ why is the answer different?		To ensure you have the correct answer use a calculator and change the fractions to decimals. $\frac{2}{3} + \frac{5}{4} = 0.667 + 1.250 = 1.917$ $\frac{23}{12} = 1.9167$ why is the answer different?

Reduce the following Addition or Subtractions, then check your work.

1	$2 + \frac{5}{9}$	2	$\frac{5}{3} - \frac{5}{7}$
3	$\frac{10}{2} - \frac{50}{10}$	4	$\frac{3}{4} - \frac{3}{8}$

5	$\frac{7}{8} - \frac{1}{2}$	6	$\frac{7}{4} - \frac{1}{2} + \frac{3}{36}$

7	$\frac{7}{5} - \frac{5}{7}$	8	$\frac{-7}{3} + \frac{1}{-4}$

9	$\frac{11}{3} - \frac{-1}{12}$	10	$\frac{1}{2}(\frac{2}{3} - \frac{6}{12})$